Addendum to *Decontamination and Demolition Work Plan, Air Force Plant 59, Johnson City, New York FINAL, September 2015*

October 17, 2016

Project Purpose and Objective –

Due to the extensive damage associated with Hurricane Irene and Tropical Storm Lee, former AFP 59 will be remediated, demolished, and the land transferred to the Broome County Industrial Development Agency (BCIDA) (U.S. Army Engineering and Support Center, Huntsville [USAESCH], 2013a). The primary objective of this project is to abate and demolish all building facilities, parking areas, ancillary equipment, etc. within the boundaries of AFP 59 and associated properties. The demolition project and related activities are not part of the Installation Restoration Program (IRP) being performed at the site. Soil contamination identified during the Environmental Baseline Survey (EBS) Phase II investigation (CB&I, 2015a) will be removed to residential standards where possible. If additional contamination is identified after slab or parking lot removal, this soil will also be removed to residential standards where possible. However, "chasing" contamination to excessive depth is not within the objectives of this project. If extensive contamination is found, the Air Force will evaluate this under the IRP in coordination with NYSDEC. Activities related to the IRP will continue in accordance with the site Record of Decision.

Purpose -

The purpose of this work plan addendum is to plan the specific approach to soil sampling to be completed in preparation for a soil removal action. The requirements for the soil removal action are discussed in the Design-Build, Restore, Remediate (DBR2) Contract Performance Work Statement for Demolition at Air Force Plant 59, New York (4 November 2014). The soil characterization and soil removal action are planned in the FINAL Decontamination and Demolition Work Plan, Air Force Plant 59, Johnson City, New York, September 2015 (CB&I, 2015b)(D&D Work Plan). This addendum contains the additional detail required on the approach and strategy for the soil sampling.

Introduction and Background –

AFP 59 soil has been the subject of previous investigations including soil sampling carried out as part of multiple vapor intrusion investigations (AECOM, 2011, Geosyntec, 2011 and AECOM, 2012) and a Phase II Environmental Baseline Survey report (CB&I, 2015a). These investigations have found locations of low-level soil contamination with poly aromatic hydrocarbons (PAHs), metals or volatile organic chemicals (VOCs). All of the buildings on the AFP 59 property are currently being demolished. Demolition began in the summer of 2015 and is scheduled to be completed in the fall of 2016. This demolition will include the removal of the building slab and the majority of the subsurface infrastructure. After demolition, some utilities will remain in place after being cut, capped and the

location coordinates recorded. As part of this subsurface demolition a soil investigation will be conducted to identify and quantify all areas of soil contamination in excess of residential standards. The soil investigation and soil removal actions will be conducted simultaneously with subsurface demolition.

Areas of Concern in Subsurface Soil -

Areas of concern in soil are discussed in the D&D Work plan. Areas of concern in soil previously identified include:

Low-level VOC contamination adjacent to the east basement of the production building

Low-level PAH contamination in the area of the former neutralization tank south of production building

Low level metals contamination in the area of the former degreaser pit

The area of VOC contamination and metals contamination is discussed in Section 1.7.16.10 of the D&D Work Plan. An area of concern containing PAH contamination adjacent to the former neutralization tank is discussed in Section 1.7.16.18 of the D&D Work Plan. Subsurface soil exceedances are shown on Figure 1.

Additional Delineation Investigation -

As discussed in the D&D work plan some additional delineation will be conducted to determine the approximate extent of areas of soil contamination. Final extent of contamination will be determined by post excavation sampling. This document discusses the initial sampling round. Sampling will be expanded if the results of the initial sampling round warrant additional sampling. Expansion of sampling will include areas of stained soil. Stained soil will be analyzed for TAL metals, TCL SVOCs, TCL VOCs, and PCBs. Additionally, attempts will be made to collect soil samples from beneath tanks should they be located. These samples will be collected form the excavator bucket and analyzed for contaminants based on the suspected usage of the tank. Table 1 discusses the initial samples to be collected. Sampling locations are presented on Figure 1.

Sample ID	Depth of Sample Collection ft. bgs	Analysis	Rationale
AFP59-DPT-032A	7.5 - 9.5	TAL metals	Investigate downgradient of sample 12B at the same depth
AFP59-DPT-032B	11.5 – 13.5	TAL metals	Investigate downgradient of sample 12B at a deeper depth
AFP59-DPT-033A	7.5 - 9.5	TAL metals	Investigate west of sample 12B at the same depth
AFP59-DPT-033A	11.5 – 13.5	TAL metals	Investigate west of sample 12B at a deeper depth
AFP59-DPT-034A	7.5 - 9.5	TAL metals	Investigate north of sample 12B at the same depth
AFP59-DPT-034B	11.5 – 13.5	TAL metals	Investigate north of sample 12B at a deeper depth
AFP59-DPT-035A	7.5 - 9.5	TAL metals	Investigate east of sample 12B at

			the same depth
AFP59-DPT-035B	11.5 – 13.5	TAL metals	Investigate east of sample 12B at a deeper depth
AFP59-DPT-036A	11-13	PAHs	Investigate PAH contamination north of previous samples at the depth previously identified
AFP59-DPT-036B	15-17	PAHs	Investigate PAH contamination north of previous samples at a deeper depth
AFP59-DPT-037A	11-13	PAHs	Investigate PAH contamination east of previous samples at the depth previously identified
AFP59-DPT-037B	15-17	PAHs	Investigate PAH contamination east of previous samples at a deeper depth
AFP59-DPT-038A	11-13	PAHs	Investigate PAH contamination south of previous samples at the depth previously identified
AFP59-DPT-038B	15-17	PAHs	Investigate PAH contamination south of previous samples at a deeper depth
AFP59-DPT-039A	11-13	PAHs	Investigate PAH contamination west of previous samples at the depth previously identified
AFP59-DPT-039B	15-17	PAHs	Investigate PAH contamination west of previous samples at a deeper depth
AFP59-DPT-040A	7-12	VOCs	Investigate the location of former sample DP004 to determine if contamination is still present
AFP59-DPT-040B	12-17	VOCs	Investigate the location of former sample DP004 at a deeper depth
AFP59-DPT-041A	6-11	VOCs	Investigate east of previous sample 25
AFP59-DPT-042A	6-11	VOCs	Investigate north of previous sample 25
AFP59-DPT-043A	6-11	VOCs	Investigate east of previous sample 25 beneath the basement excavation

Additional Soil Screening for VOCs -

Due to the previously noted concern with vapor intrusion by VOCs into the production building, a soil screening effort will be carried out during subsurface demolition to evaluate the potential for VOC soil contamination not previously identified. This will be performed in addition to the soil sampling discussed above. The screening will include the collection of PID measurements on a systematic grid across the

footprint of the former production building. During subsurface demolition of the slab and other subsurface features (i.e. footings, utility trenches), PID screening of the soil will be conducted as discussed in Section 5.3 of the D&D Work Plan. Field screening will be conducted from the excavator bucket at intervals correlating to 900 sq. ft. Areas with sustained PID readings will be flagged for later laboratory analysis.

Summary –

Soil sampling, and the soil removal action are anticipated to be performed in early fall of 2016. Requirements for excavation, post excavation sampling, and transportation & disposal are addressed in Section 5 of the D&D Work Plan. Chemical analytical requirements are discussed in the UFP QAPP for the project.

References –

AECOM, 2011. Vapor Intrusion Remedial Investigation Report, Air Force Plant 59, Johnson City, New York, FINAL . April.

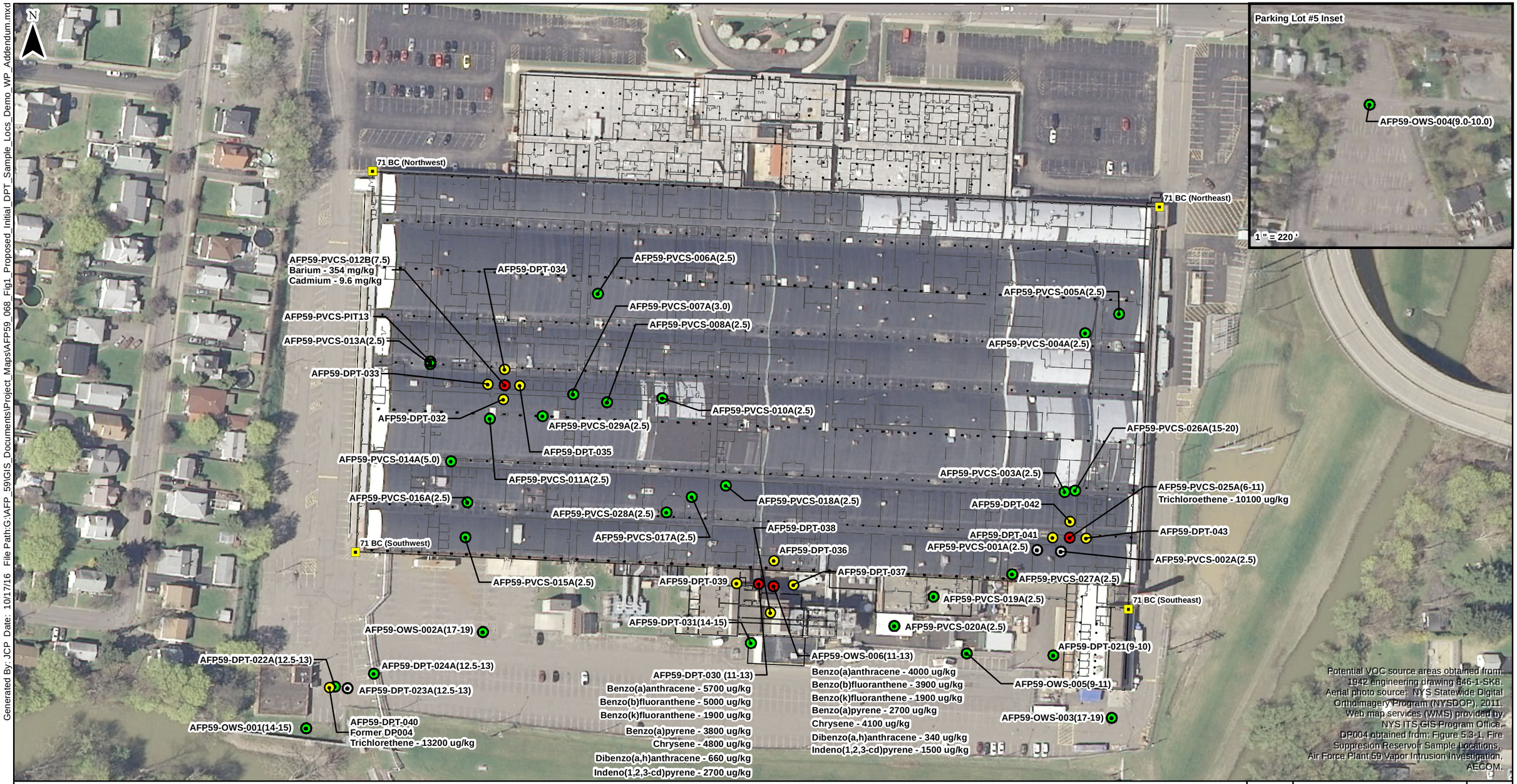
AECOM, 2012. Supplemental Vapor Intrusion Remedial Investigation and Focused Feasibility Study, Air Force Plant 59, Johnson City, New York, FINAL . July

CB&I, 2015a. *Phase II Environmental Baseline Survey Report, Air Force Plant 59, Johnson City, New York.* April.

CB&I, 2015b. *Decontamination and Demolition Work Plan, Air Force Plant 59, Johnson City, New York.* September.

Geosyntec, 2011. Assessment of Subsurface Volatile Organic Compounds and Vapor Intrusion Risks, AF Plant 59, Johnson City, NY. September.

USAESCH, 2013. *Final Environmental Assessment for the Demolition of Air Force Plant 59, Johnson City, New York.* Prepared for United States Air Force. October



Proposed DPT Sample Location

Soil Sample Location (VOC or PAH or Metals Lab Result > Reg Limit)

Soil Sample Location (VOC or PAH or Metals Lab Result < Reg Limit)

Soil Sample Location (VOC or PAH or Metals Lab Result = Non-Detect)

Surveyed Exterior Building Corner

Door

Building Column

Building Interior Wall

Building Exterior Wall

Note: DP004 obtained from Figure 5.3-1, Fire Suppression Reservoir Sample Locations, Air Force Plant 59 Vapor Intrusion Investigation, AECOM.

0 120 240 Feet

Projection: NAD 1983 UTM Zone 18N

U.S. ARMY ENGINEERING SUPPORT CENTER
HUNTSVILLE

FIGURE NUMBER 1

AIR FORCE PLANT 59
INITIALLY PROPOSED DPT SAMPLE LOCATIONS
DECONTAMINATION AND DEMOLITION
WORK PLAN ADDENDUM
JOHNSON CITY, NY

CB&I Federal Services LLC
312 Directors Drive
Knoxville, TN 37923

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